

Jones Dairy Inc. Scaled Site Map

Discharge Plan: DP# 115
Permitted Discharge: 18,000 gpd

34° 28' 38", 106° 44' 46"
T3N, R2E, Sec. 16 & 17 (projected)
Belen and Casa Colorado Grants

P.O. Box 560 (52 Carlos Martinez Rd)
Vegueta, NM 87062 Socorro County
(505) 864 - 0607

- Monitoring well
- Supply well
- Direction of surface flow
- Green water pipeline
- Green water, concrete ditch
- Earthen berm

0 0.125 0.25 Mile

Elevation contours, feet
above mean sea level

GROUND WATER



GLORIETA GEOSCIENCE, INC.
P.O. Box 5722 Santa Fe, NM 87502
(505) 983-5446 Fax (505) 983-6482
Email: ggi@glorieta.com
Web Address: www.glorieta.com

BUREAU

A-8. Processing, Treatment, Storage and Disposal System. Briefly describe how wastewater, sludge, etc. is processed, treated, stored, and/or disposed of at your facility. See Supplemental Instructions for examples of system components.

Jones Dairy proposes to discharge up to 30,000 GPD of greenwater into its evaporative lagoon system from the new milking barn (located south) and the old milking barn (located north). Green water from the new milking barn is predominantly generated from water used in the barn to wash cows, equipment and barn floor. Greenwater from the new milking barn gravity flows via concrete alley into two concrete solids settling chambers (weeping wall). Solids separation occurs in the settling chambers and greenwater with minimal solids flows into lagoons #3 and #4. Lagoons #3 and #4 are synthetically lined and are connected by an overflow pipe. Green water collected in the lagoon system is evaporated.

For the past three years Jones Dairy stopped milking at the old milking barn located north of the property. Green water from the old milking barn is predominantly generated from wash water used in the animal hospital barn. The other minor sources of green water are calf bottles wash water and wash water from approximately 20 hospital cows that are milked in this barn. Green water from the old milking barn will flow down a concrete alley into concrete settling chambers from where it is channeled into synthetically lined evaporative lagoon (lagoon #5) located west of old milking barn. Collected green water is evaporated.

Manure solids are scraped from corrals and concrete settling chambers is dried and hauled off site by a custom hauler. Currently Jones dairy does not land apply green water or manure solids.

A-9. Discharge Locations. List the locations of your facility and of all components of your processing, treatment, storage and/or disposal system. Examples of components include septic tanks, lagoons, leachfields, irrigation sites, mine stockpiles, etc. Additional examples are listed in the Supplemental Instructions. Latitude and longitude are optional unless township, range and section are not available.

Components	Township	Range	Section(s)	Latitude	Longitude
New milking barn (south)	3N	2E	16 & 17 (projected) Belen and Casa Colarada Grants	34°, 28' 38" N	104°, 44', 46" E
New milking barn synthetically lined evaporative lagoon system (lagoons #3 and #4, concete settling chambers #1 and #2; proposed lagoon)	3N	2E	16 & 17 (projected) Belen and Casa Colarada Grants		
Proposed synthetically lined evaporative lagoon (new milking barn)	3N	2E	16 & 17 (projected) Belen and Casa Colarada Grants		
Old milking barn (north)	3N	2E	16 & 17 (projected) Belen and Casa Colarada Grants		
Old milking barn - Concrete settling	3N	2E	16 & 17		

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Nov-09

JAN 04 2010

CLIENT: Glorieta GeoScience
Lab Order: 0910373
Project: Jones Dairy
Lab ID: 0910373-01

Client Sample ID: MWB
Collection Date: 10/20/2009 8:06:00 AM
Date Received: 10/20/2009
Matrix: AQUEOUS

BUREAU

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Chloride	10	0.10		mg/L	1	Analyst: TAF 10/21/2009 12:05:20 PM
Nitrogen, Nitrate (As N)	2.0	0.10		mg/L	1	10/21/2009 12:05:20 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	260	20.0		mg/L	1	Analyst: MMS 10/28/2009 3:45:00 PM
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	Analyst: KS 10/27/2009 2:30:00 PM

Qualifiers:	* Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E Estimated value	H	Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL	Reporting Limit
	S Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Nov-09

CLIENT: Glorieta GeoScience
 Lab Order: 0910373
 Project: Jones Dairy
 Lab ID: 0910373-02

Client Sample ID: MWA
 Collection Date: 10/20/2009 9:55:00 AM
 Date Received: 10/20/2009
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	14	0.10		mg/L	1	10/21/2009 12:57:34 PM
Nitrogen, Nitrate (As N)	1.3	0.10		mg/L	1	10/21/2009 12:57:34 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	338	20.0		mg/L	1	10/28/2009 3:45:00 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	10/27/2009 2:30:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Date: 02-Nov-09

CLIENT:	Glorieta GeoScience	Client Sample ID:	MWC
Lab Order:	0910373	Collection Date:	10/20/2009 10:46:00 AM
Project:	Jones Dairy	Date Received:	10/20/2009
Lab ID:	0910373-03	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	19	0.10		mg/L	1	10/21/2009 1:14:58 PM
Nitrogen, Nitrate (As N)	0.76	0.10		mg/L	1	10/21/2009 1:14:58 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	371	20.0		mg/L	1	10/28/2009 3:45:00 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	10/27/2009 2:30:00 PM

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	E Estimated value	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
	ND Not Detected at the Reporting Limit	RL Reporting Limit
	S Spike recovery outside accepted recovery limits	

Hall Environmental Analysis Laboratory, Inc.

Date: 15-Jul-09

ISE 7/15/2009

CLIENT: Glorieta GeoScience
Lab Order: 0907107
Project: Jones Dairy
Lab ID: 0907107-01

Client Sample ID: MW C
Collection Date: 7/6/2009 1:05:00 PM
Date Received: 7/7/2009
Matrix: AQUEOUS

BUREAU

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: RAGS
EPA METHOD 300.0: ANIONS						
Chloride	17	0.10		mg/L	1	7/8/2009 12:59:09 PM
Nitrogen, Nitrate (As N)	0.69	0.10		mg/L	1	7/8/2009 12:59:09 PM
						Analyst: KMS
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	380	20		mg/L	1	7/8/2009
						Analyst: LJB
SM 4500 NORG C: TKN						
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	7/14/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 15-Jul-09

CLIENT: Glorieta GeoScience
Lab Order: 0907107
Project: Jones Dairy
Lab ID: 0907107-02

Client Sample ID: MW A
Collection Date: 7/6/2009 2:40:00 PM
Date Received: 7/7/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	11	0.10		mg/L	1	7/8/2009 2:08:48 PM
Nitrogen, Nitrate (As N)	1.0	0.10		mg/L	1	7/8/2009 2:08:48 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	470	20		mg/L	1	7/9/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	7/14/2009

Qualifiers:

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- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 15-Jul-09

CLIENT: Glorieta GeoScience
Lab Order: 0907107
Project: Jones Dairy
Lab ID: 0907107-03

Client Sample ID: MW B
Collection Date: 7/6/2009 3:55:00 PM
Date Received: 7/7/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	8.6	0.10		mg/L	1	7/8/2009 2:43:37 PM
Nitrogen, Nitrate (As N)	1.7	0.10		mg/L	1	7/8/2009 2:43:37 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	250	20		mg/L	1	7/9/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	7/14/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Apr-09

JUL 15 2009

CLIENT: Glorieta GeoScience
Lab Order: 0903495
Project: Jones Dairy
Lab ID: 0903495-01

Client Sample ID: MW-A

Collection Date: 3/30/2009 5:35:00 PM

BUREAU

Date Received: 3/31/2009

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	13	0.10		mg/L	1	4/1/2009 12:08:38 PM
Nitrogen, Nitrate (As N)	1.3	0.10		mg/L	1	4/1/2009 12:08:38 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JAT
Total Dissolved Solids	280	100		mg/L	1	4/3/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	5.0		mg/L	1	4/4/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Apr-09

CLIENT: Glorieta GeoScience
 Lab Order: 0903495
 Project: Jones Dairy
 Lab ID: 0903495-03

Client Sample ID: MW-B
 Collection Date: 3/30/2009 4:04:00 PM
 Date Received: 3/31/2009
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	8.9	0.10		mg/L	1	4/1/2009 1:00:52 PM
Nitrogen, Nitrate (As N)	2.0	0.10		mg/L	1	4/1/2009 1:00:52 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JAT
Total Dissolved Solids	260	20		mg/L	1	4/3/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/4/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Apr-09

CLIENT: Glorieta GeoScience
 Lab Order: 0903495
 Project: Jones Dairy
 Lab ID: 0903495-04

Client Sample ID: MW-C
 Collection Date: 3/30/2009 5:54:00 PM
 Date Received: 3/31/2009
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	16	0.10		mg/L	1	4/1/2009 1:35:41 PM
Nitrogen, Nitrate (As N)	0.84	0.10		mg/L	1	4/1/2009 1:35:41 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JMP
Total Dissolved Solids	270	20		mg/L	1	4/6/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	4/4/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Feb-09

CLIENT: Glorieta GeoScience
 Lab Order: 0901355
 Project: Jones Dairy
 Lab ID: 0901355-01

Client Sample ID: MW-A
 Collection Date: 1/26/2009 7:42:00 PM
 Date Received: 1/27/2009
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	11	0.10		mg/L	1	1/27/2009 1:41:14 PM
Nitrogen, Nitrate (As N)	1.2	0.10		mg/L	1	1/27/2009 1:41:14 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	270	100		mg/L	1	1/30/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	2/1/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Jan-09

AUG 04 2009

CLIENT: Glorieta GeoScience
Lab Order: 0901289
Project: Jones Dairy
Lab ID: 0901289-01

Client Sample ID: MW-C
Collection Date: 1/21/2009 4:25:00 PM
Date Received: 1/22/2009
Matrix: AQUEOUS

BUREAU

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	16	0.10		mg/L	1	1/22/2009 5:26:49 PM
Nitrogen, Nitrate (As N)	0.72	0.10		mg/L	1	1/22/2009 5:26:49 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	370	20		mg/L	1	1/22/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/24/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Jan-09

CLIENT: Glorieta GeoScience
Lab Order: 0901289
Project: Jones Dairy
Lab ID: 0901289-02

Client Sample ID: MW-B
Collection Date: 1/21/2009 5:42:00 PM
Date Received: 1/22/2009
Matrix: AQUEOUS

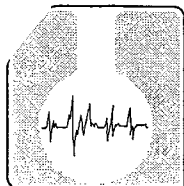
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	8.7	0.10		mg/L	1	1/22/2009 5:44:13 PM
Nitrogen, Nitrate (As N)	1.9	0.10		mg/L	1	1/22/2009 5:44:13 PM
SM 2540 C: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	250	20		mg/L	1	1/22/2009
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	ND	1.0		mg/L	1	1/24/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

DP-115



ASSAIGAI ANALYTICAL LABORATORIES, INC.

7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood Dr., Suite N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2550

JONES DAIRY INC.
attn: RON JONES
P.O. BOX 560
VEGUITA, NM 87062

RECEIVED

JAN 22 2001

GROUND WATER BUREAU

Explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: JONES DAIRY INC.
Project: 0012024 MONITOR WELLS

William P. Biava
William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client Sample ID **WELL #1** *Currently MW-C* Sample Matrix Sample Collected 12/04/00 09:15:00

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0012024-01A		EPA 300.0							
W00321	MW.2000.1731-20	16887-00-6	Chloride	8.44	mg / L	1	0.05		12/06/00
W00321	MW.2000.1731-20	14797-65-0	Nitrate, as N	4.18	mg / L	1	0.05		12/06/00
0012024-01B		SM 4500-N & NH3B,C							
W00334	MW.2000.1763-12		Kjeldahl Nitrogen, Total	ND	mg / L	1	0.2		12/14/00

Client Sample ID **WELL #2** Sample Matrix Sample Collected 12/04/00 09:50:00

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0012024-02A		EPA 300.0							
W00321	MW.2000.1731-21	16887-00-6	Chloride	16.0	mg / L	1	0.05		12/06/00
W00321	MW.2000.1731-21	14797-65-0	Nitrate, as N	2.09	mg / L	1	0.05		12/06/00
0012024-02B		SM 4500-N & NH3B,C							
W00334	MW.2000.1763-16		Kjeldahl Nitrogen, Total	ND	mg / L	1	0.2		12/14/00



Hall Environmental Analysis Laboratory, Inc.

Date: 02-Nov-09

CLIENT: Glorieta GeoScience
Lab Order: 0910373
Project: Jones Dairy
Lab ID: 0910373-04

Client Sample ID: Lagoon
Collection Date: 10/20/2009 10:58:00 AM
Date Received: 10/20/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	1300	10		mg/L	100	10/21/2009 2:42:01 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	10/21/2009 1:32:23 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: MMS
Total Dissolved Solids	12100	2000		mg/L	1	10/28/2009 3:45:00 PM
SM 4500 NORG C: TKN						Analyst: KS
Nitrogen, Kjeldahl, Total	1000	20		mg/L	1	10/27/2009 2:30:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 15-Jul-09

CLIENT: Glorieta GeoScience
Lab Order: 0907107
Project: Jones Dairy
Lab ID: 0907107-04

Client Sample ID: Lagoon
Collection Date: 7/6/2009 2:00:00 PM
Date Received: 7/7/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: RAGS
Chloride	1500	10		mg/L	100	7/13/2009 12:41:42 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	7/8/2009 1:33:58 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KMS
Total Dissolved Solids	19000	2000		mg/L	1	7/9/2009
SM 4500 NORG C: TKN						Analyst: LJB
Nitrogen, Kjeldahl, Total	1100	20		mg/L	1	7/14/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Apr-09

CLIENT: Glorieta GeoScience
Lab Order: 0903495
Project: Jones Dairy
Lab ID: 0903495-02

Client Sample ID: Lagoon-3
Collection Date: 3/30/2009 5:55:00 PM
Date Received: 3/31/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	1200	10		mg/L	100	4/23/2009 5:40:00 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	4/1/2009 12:43:27 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JAT
Total Dissolved Solids	17000	2000		mg/L	1	4/3/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	1600	20		mg/L	1	4/4/2009

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S - Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Oct-08

CLIENT: Glorieta GeoScience
Lab Order: 0810129
Project: Jones Dairy
Lab ID: 0810129-04

Client Sample ID: Lagoon
Collection Date: 10/7/2008 9:10:00 AM
Date Received: 10/7/2008
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SLB
Chloride	1200	5.0		mg/L	50	10/23/2008 1:12:06 PM
Nitrogen, Nitrate (As N)	ND	2.0		mg/L	20	10/8/2008 12:45:26 AM
SM 2540C: TDS						Analyst: KMB
Total Dissolved Solids	12000	2000		mg/L	100	10/9/2008
SM 4500 NORG C: TKN						Analyst: TAF
Nitrogen, Kjeldahl, Total	890	20		mg/L	1	10/13/2008

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory

Date: 31-Mar-06

CLIENT: Tetra Tech EM Inc.
 Lab Order: 0603271
 Project: Jones Dairy
 Lab ID: 0603271-04

Client Sample ID: Old Lagoon
 Collection Date: 3/23/2006 10:55:00 AM
 Date Received: 3/24/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Chloride	1900	5.0		mg/L	50	Analyst: MAP 3/24/2006 5:52:51 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	3/24/2006 2:06:32 PM
EPA METHOD 160.1: TDS						
Total Dissolved Solids	14000	500		mg/L	1	Analyst: ks 3/30/2006
EPA METHOD 351.3: TKN						
Nitrogen, Kjeldahl, Total	400	10		mg/L	1	Analyst: TES 3/29/2006

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Apr-09

CLIENT: Glorieta GeoScience

Client Sample ID: Lagoon-3

Lab Order: 0903495

Collection Date: 3/30/2009 5:55:00 PM

Project: Jones Dairy

Date Received: 3/31/2009

Lab ID: 0903495-02

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: TAF
Chloride	1200	10		mg/L	100	4/23/2009 5:40:00 PM
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	10	4/1/2009 12:43:27 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: JAT
Total Dissolved Solids	17000	2000		mg/L	1	4/3/2009
SM 4500 NORG C: TKN						Analyst: KMS
Nitrogen, Kjeldahl, Total	1600	20		mg/L	1	4/4/2009

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S - Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit